# MARTIN'S MAGAZINE

Vol. 4. No. 7.

## FOR THE PROGRESSIVE BRICKMAKER

JULY 1904

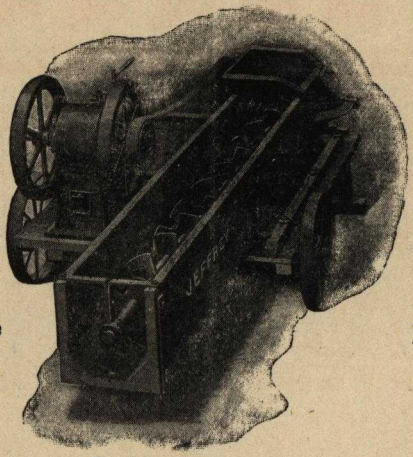
PUBLISHED MONTHLY
- AT -
LANCASTER, PENNA.
- BY -
THE HENRY MARTIN BRICK MACHINE MFG. CO., Inc.

## JEFFREY PORTABLE MIXERS

FOR MORTAR OR CONCRETE

Elevating,
Conveying,
Power-
transmitting
Machinery.

Send for our
General Catalogue
No. 72.



Screening,
Coal Cutting,
Hauling,
Washing, Coal
and Rock
Drilling

Let us Figure
with YOU

Send for Circular 65 A.

**The Jeffrey Manufacturing Company,**

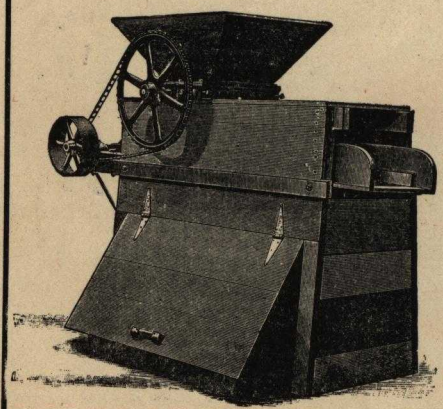
COLUMBUS, OHIO, U.S.A.

BRANCHES: NEW YORK, CHICAGO, DENVER.
PITTSBURG, CHARLESTON, W. VA.

*"Say you saw it in Martin's Magazine."*

## A MODEL GRINDER

*For Grinding & Sieving Sand*



*"Will pay for itself in a single season"*

**MARTIN - LANCASTER - PA.**

## MORRISON'S
## Latest Improved
## KILN

It has no Rival,
Burns any Fuel,
Not costly to Erect,
Write for Particulars
Regarding Yard Rights.

The Henry Martin
Brick Machine Mfg. Co. Inc.
LANCASTER, PA.

Martin's Magazine
For The Progressive Brickmaker
Vol. 4. JULY 1904. No. 7.

# THE MANUFACTURE OF PRESSED BRICK.

The drying of the brick before repressing is probably one of the most important points to consider. To get a good pressed brick it is necessary that they should be dried regularly or evenly and not too rapidly; if the drying process is to rapid the brick are liable to have a crust formed while the interior is still soft, and then when repressed the corners are apt to break and will not be filled out properly. Where the MARTIN system of drying brick is in use, no difficulty is experienced in getting the 'gluts' into the proper shape for repressing, and any Brickmaker contemplating artificial drying will be well repaid for investigating this system.

Where the bricks are dried in the open air, they should not be exposed to the direct rays of the sun or placed where the wind will strike too hard against them; they should be allowed to dry until they can be lifted, carefully of course, and not leave marks of the fingers on the surface. A little experience is by far the best teacher along this line.

## REPRESSING.

In order to secure the best results, it is essential to have a Repress that is in good order, the Die box should be true and perfectly smooth, the top and bottom plungers should be square. In operating the repress the brick or 'glut' must be carefully put in to the Die so as not to break or damage the corners or edges. With the Single lever Press made by "Martin", by raising the lever the plunger is raised to the top of the Die and the brick is placed on the plate; by reversing the lever the brick is lowered into the Die box, the top plate is then moved into position and by a further pressure on the lever the brick is repressed, after which when the lever is reversed the brick is delivered on top of the die, ready to be taken away.

Always keep the inside of the Die box clean, by wiping it occasionally with an oiled rag.

## BURNING.

This last, but not least, stage in handling of Pressed brick is one that required much care and study

To know for a certainty just what heat a clay will stand can only be determined by actual experiment and even after repeated burns there may be difficulties encountered owing to the varying composition of clay in different parts of the bank. A careful investigation reveals the fact that a large majority of the failures of would-be Brickmakers has been due to improper burning.

## BRICK BATS.

Last month we enclosed with *Martin's Magazine* a card reading "what do you do with those Brick-bats; would you like to know what we would do with them?"

A very large number of replies were received, but none gave any way of disposing of this waste on the yard, but all appeared anxious to utilize the broken brick.

We have found that when the bats are properly pulverized they make an excellent mixture for the clay, and when reduced to the fineness of sand, make a good coating for the Brick Moulds on a soft mud plant.

There has been placed on the market by MARTIN at Lancaster, Pa., a Crusher designed especially for preparing brick-bats for use; this machine is illustrated on page 81 of this issue and as the price is very low, it will pay for itself in a very short time.

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The total distance by rail from the Russian capital to Port Arthur is 5,913 miles.

## HERE AND THERE.

Next month the Magazine will contain a series of articles upon the drying of brick by Artificial means. During the past year there has been extensive improvements made along this line and we propose to give our readers the information in detail, illustrating different plants, both Soft and stiff-mud, and showing the most up-to-date methods employed.

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FOR SALE — 100 Double Deck Cars, in good condition; Standard Dry Kiln make; immediate delivery. Columbia Brick Co., Box 208, Lake City, Fla.

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Speaking of antiquated methods of transportation, recalls the "human tram" that once carried sulphur from the top of the extinct crater Popocatepetl, 10,500 feet above the City of Mexico, says an exchange. An Indian would scrape the sulphur from the floor of the crater, bag it, and seating himself and cargo on a mat placed on the snow, slide swiftly downward; thence he would deliver his burden to the retorts to be purified for shipment to the City of Mexico. Since Americans have acquired the silent volcano, many improvements are contemplated.

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Instead of the American expression "cast-off clothing" the English say "left-off clothing." The following ad. appeared recently in an English periodical: "Mr. Jones has left-off clothing of every description, and invites your careful inspection."

## BRICK YARD WISDOM.

Dont's for the Engineer.

Don't forget to go into the furnace as often as possible with a rake, or better a piece of iron thin enough to go through the air space in the grates, and clean out all the slag and clinker from them. The time and labor taken to do this will be well repaid in the easier steaming of the boiler and the consequent saving of labor.

Running an engine doesn't mean simply wiping it up and polishing the bright work; of course, these are included. Get the slack out of the bearings and still have them cool. Take up the lost motion in the valve gear. Keep the rod and valve stems packed so that the casual visitor won't think he is in a den of hissing serpents, and be sure the safety on the governor will work.

Don't forget that the pile of coal costs good American dollars, and that your employer will think just as much of you, and possibly more, if you can make a hundred pounds do the work which before required one hundred and ten pounds. The ten pounds don't seem much on a shovel, but it means one ton in every ten and if the plant uses five hundred tons a year it will make a considerable difference in the coal bill.

Don't forget that you must be the first man in and the last man out of the plant.

Ten hours for a day's work must mean at least eleven for the engineer. He must be on hand early enough to be sure that his steam, water and fire are sufficient to start with, right on the second.

The engineer is in many cases, and I may say in the most cases, the right hand man of his employer, standing on a level with the superintendent or foreman. He is asked for and expected to give advice on matters pertaining to his department. If he is asked how much fuel will be required for a specified time it is his business to know and to give a satisfactory answer. If there is to be an extension of the plant he will be required at the outset to give an estimate of the additional load the power plant can stand. If you as an engineer are asked things about your plant by your employer, tell him the exact truth, no matter if it is to your own disadvantage. It is possible that he has asked someone better qualified to give advice than you.

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A princess of Hungary once asked a monk, who was a scholar and a wit, to explain to her the story of a Ballam and his ass; adding: "Good father, I can hardly believe that an ass should be so talkative." "Madam," replied the the father, "your scruples may cease, when you are informed it was a female."

---

A dead latch—That on a cemetery gate.

? ? ? ? ? ? ?

# DRYERS

? Did You ever stop to consider the benefits to be derived from an Artificial Steam Dryer. ?

**Be Independant of the weather or seasons.**

Dry your brick over night and always have a stock on hand.

**Simplicity**
**Economy**
**Satisfaction**

are the chief points of merit in the

**Martin System.**

Patents Pending

MARTIN - LANCASTER - PA.

? ? ? ? ? ? ?

## FUNNY ADVERTISEMENTS.

"Annual sale now going on. Don't go elsewhere to be cheated—come in here.

"A lady wants to sell her piano, as she is going abroad in a strong iron frame."

"Wanted, experienced nurse for bottled baby."

"Furnished apartment suitable for gentlemen with folding doors."

"Wanted a room for two gentlemen about 30 feet long and 20 feet broad."

"Lost a collie dog by a man on Saturday answering to Jim with a brass collar around his neck and a muzzle."

"Wanted by a responsible girl, her passage to New York, willing to take care of children and a good sailor."

"Respectable widow wants washing for Tuesdays."

"For Sale—a pianoforte, the property of a musician with carved legs."

"Mr. Brown, furrier, begs to announce that he will make up gowns, capes, etc., for ladies out of their own skin."

"A boy wanted who can open oysters with a reference."

"Bulldog for sale; will eat anything; very fond of children."

"Wanted an organist and a boy to blow the same."

"Wanted, a boy to be partly outside and partly behind the counter."—Lyre.

A natural conclusion—the postscript to a girl's letter.

## KING COAL.

The total coal production for the United States up to Dec. 31, 1902, is estimated at 4,860,000,000 short tons. That means that a pyramid built of this material as high as Pike's Peak (14,108 feet) would have for its base a rectangle 1.14 miles square. If the coal were spread out over the States of Rhode Island and Connecticut it would cover both of them a foot deep.

### The Largest Room.

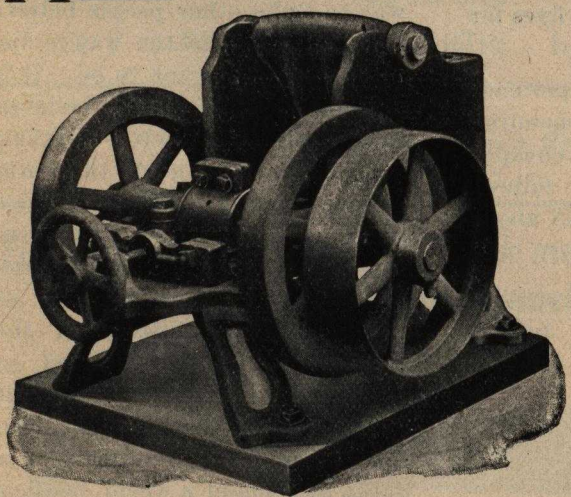
The largest room in the world, under one roof and unbroken pillars, is at St. Petersburg. It is 620 feet long and 150 feet in breadth. By daylight it is used for military displays, and a whole battalion can completely maneuver in it. By night twenty thousand wax tapers give it a beautiful appearance. The roof is a single arch of iron.

### Two Sunsets in a Day.

There is only one place in the world where the sun sets twice in the same day, and that is at Leek, in England. There is a jagged mountain there and the sun sets behind it and it grows dark. An hour later the sun reappears at a gap in the side of the mountain, and it is light again until the real sunset.

A folding bed is as sure to shut up unexpectedly as a woman isn't.


# HOW ABOUT IT?



Using one of
MARTIN'S
Brick-Bat
Crushers

You cannot afford to be Without It.

Write to-day.

THE HENRY MARTIN BRICK MACHINE MFG. CO., INC.
LANCASTER, PENNA. U. S. A.

# MARTIN'S MAGAZINE

**For the Progressive Brickmaker.**

Published about the 10th of each month at
LANCASTER, PA.
-- by --
**The Henry Martin Brick Machine Mfg. Co.**
**Incorporated.**

Subscription Price -- One Year for
TWENTY FIVE CENTS.
Advertising Rates on Application.
Forms close on 1st of month.

*Vol. 4.* — *July 1904* — *No. 7.*


## CHIPS

Man wants but little here below
But he wants that mighty bad;
And that is why the most of us
Keep hustling 'round like mad.

It is said the good die young, but the oldest inhabitant won't admit it.

What a jolly world this would be if every man came up to the standard of perfection he fixes for his neighbor.

You can get business experience on your own account by spending your own money, but it's cheaper to buy it of the other fellow. MORAL. Cousult MARTIN about Brick machinery.

Nothing hurts a small man so much as having other people ignore his threats.

Fish may be good brain food but this don't mean the schools of land suckers that exist.

When a man feels mean toward his neighbor and things don't suit him at home, its a sure sign that he is bilious.

Do you know anything about the MARTIN system of drying brick?

While we make lots of fuss about men killing themselves by work, still there is hope for the human race, as this only applies to one in a million.

That man who labors under the impression that some other man is always in his way never amounts to much.

Have you taken the time to read the advertisements in this issue? Do so now anyway—a second reading won't do any harm.

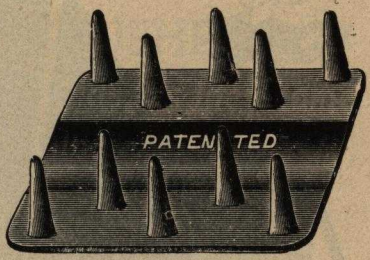
Voting cattle may prosper on election day, but they are usually on the hog the rest of the year.

Believe in yourself. That is the way to make other people believe in you, and it is the way to become what you want to be. It is the people who have believed thoroughly in themselves and their mission who have made the world believe in them. Napoleon was a great general because in never occured to him that he could lose. Luther changed the thought of Europe and the history of the world because he believed so thoroughly that he was right that nothing could daunt him. Columbus gained the support of a queen and found a world because his belief in himself inspired confidence in others.

THE BEST, SIMPLEST AND CHEAPEST

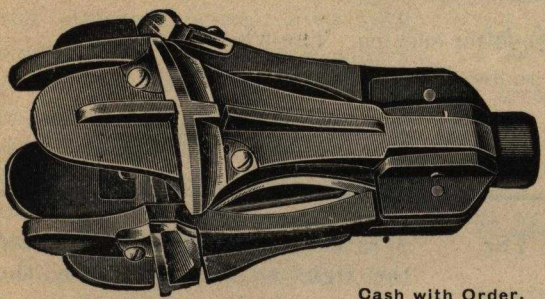
## "BELT FASTENER"

Especially suited for Clay Belts.
Makes an Endless or continuous belt.
Fasteners never wear out.




**MARTIN - LANCASTER - PENNA.**

*"Say you saw it in Martin's Magazine."*



## TUBE SCRAPERS

Keep your Boiler tubes clean. It saves coal and labor.

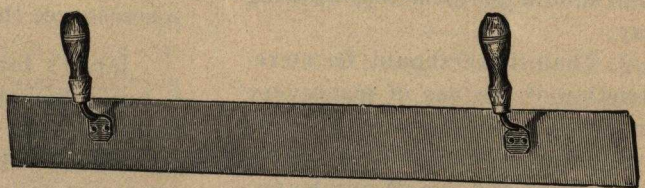
Under 3″ Flues - $1.90
From 3″ to 5″ " - $2.60

Cash with Order.

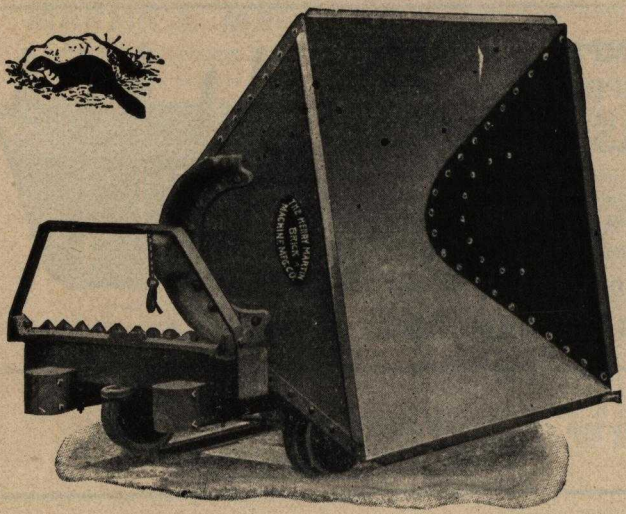
P. O. DRAWER 587 - MARTIN - LANCASTER, PA.

*"Say you saw it in Martin's Magazine."*

***For cleaning off the top of Brick moulds, as they come from the Brick machine.***



***USE - Martin's Two handle Steel Strike.***



**MARTIN'S STEEL DUMP CAR.**

**FOR BRICK YARDS COAL MINES SAND QUARRIES &c. &c.**

Every car is designed for service. The wheels have broad tread and can be made to any guage desired.

**THE HENRY MARTIN BRICK MACHINE MFG. CO., Inc. - LANCASTER, PA.**

### Builders Declare Again For The Open Shop.

The members of the Western Pennsylvania and New York Builders Association recently affirmed their adherence to the following cardinal principles enunciated at the Chicago National convention:

1. That there should be no limitation as to the amount of work a man should perform in a working day.

2. That there should be no restriction of the use of machinery or tools.

3. That there should be no restriction of the use of any manufactured material except prison made.

4. That no person should have the right to interfere with the workman during working hours.

5. That the use of apprentices should not be prohibited.

6. That the foreman shall be the agent of the employer.

7. That all workmen are at liberty to work for whomsoever they see fit.

8. That all employers are at liberty to employ and discharge whomsoever they see fit.

### Japan's Interests Greatest.

Japan has the largest interests in Manchuria. In 1902 that country had 177 ships, with a tonage of 463,000, enter Niuchang alone.

The best policy is a paid-up one.

## BELT DRESSING.

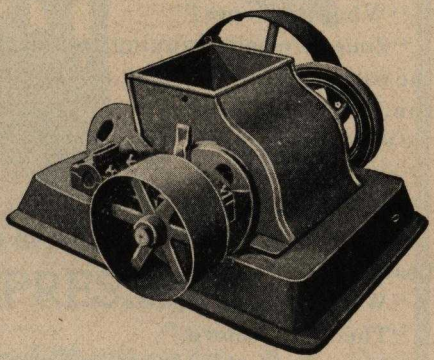
In a paper read before the Aberdeen Mechanical society, a few suggestions were made on the subject of belt-dressing. Leather belting can be made to transmit the power when careful attention is paid to its condition. The driving face of the belt should be kept in a clammy or moistic state by applying a good coating of a trustworthy belt dressing at intervals of about eight weeks. The dressing should be made up of fish oils and animal fat to a consistency of soft ointment, spread over both sides of the belt with a square brush like a shoe brush. A belt attended to in this way will run much slacker than a dry belt, and the pulling side will hug and suck to the pulleys, while lifting the load without slip. There will be no loss of power from overstained bearings; a dressing of this sort keeps the leather fresh and prevents the atmosphere from penetrating into and drying the natural sap out of the leather, while preserving its life for many years. Mineral or vegetable oils should never be used. Castor oil dressing soon causes leather to perish and rot. Boiled linseed oil makes a capital dressing for cotton belting; it soon oxidizes and gives the cotton belt an elastic gummy driving face.

---

She (pettishly)—I don't see why it is you find poker so fascinating.

Her Husband—It's the queens in the deck, my dear. They remind me so much of you.

As a **CRUSHER** there's none better than



**MARTIN'S**

**Iron Base Two-roll Disintegrator.**

**Weight 2700 lbs.**

**Smooth or Plain rolls.**

**H. Martin Brick Machine Mfg. Co.**

**Lancaster, Penna.**

### Diagnosis.

"They say that disease and disasters and calamities are all caused by microbes. It is my theory that boodling is caused by a microbe."

"I wouldn't look among the microbes for the cause of boodling."

"Where would you look?"

"Among the big bugs."

---

"Look here! This bill for that automobile I sold you has been running for over a year now."

"Let her run; I want to have something connected with my automobile that will run for over a half-hour without stopping.

### Education in Brooklyn.

A Brooklyn school teacher sends some answers given by boys in her class in a recent examination:

"What are zones?"

"Zones are belts running around the earth giving out heat as they run."

"What do we import from Italy?"

"Italians."

"Of what is the earth composed?"

"Sand, water, air and human beans."

"What causes a fog?"

"The night before,"

"Name two things we import from Africa?"

"Ivory and ivory soap."

---

HAVE YOU ONE OF MARTIN'S BIG CATALOGUES?

---

### Expensive.

McJigger: Why do you refer to her as your "old flame?" You're still calling on her, aren't you?

Thingum bob: Yes, and I'm still burning money on her.

---

The duck has only two legs, and they are set so far back on his running gears by nature that she came pretty near missing his body. A quack doctor has only two legs, but they are fastened on his body low down. His bill is not so broad as a duck's, but a heap longer and harder to pay. Some ducks when they get big have curls in their tails and are called drakes. Drakes don't have to set nor hatch, but just loaf, go in swimming and eat. If I was going to be duck, I'd rather be a drake every time.

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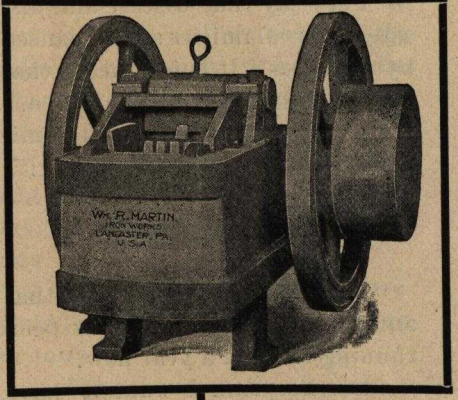
# STONE CRUSHERS




## Yes - Sir:

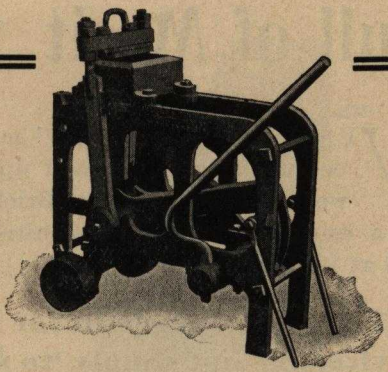
We know positively that this machine will prove a profitable investment.

## — why? —

Because you can utilize those Rock and Stone you now throw away.

Write to-day for our Price.

**Wm. R. MARTIN - IRON WORKS - LANCASTER, PA.**



Single Lever

Double Lever

Every Brick Yard Can Use One

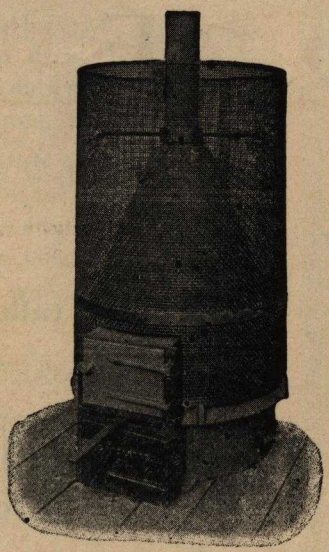
of these make **HAND REPRESSES** and money.

One man will easily repress 2,000 brick per day.

THE HENRY MARTIN
BRICK MACHINE MFG. CO. Inc. - LANCASTER, PA.

*"Say you saw it in Martin's Magazine."*

# You Can't Do Without It



At least, if you want to be up to date, and make the most money out of your investment.

One customer writes:

*"We start the fire and the Dryer does the rest."*

Shipped immediately from stock and guaranteed satisfactory.

**"MARTIN"**

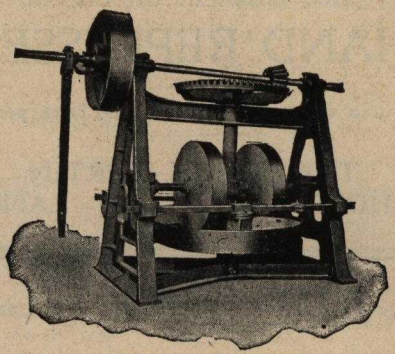
**Drawer 587 - - - Lancaster, Pa.**

# A Pan=full of Merit

WE do not build a "cheap" machine, because it will not stand up to the work; the down-to-date Brickmaker wants a machine that won't require a machinist at it all the time.

**The "MARTIN" Pans are built for long active service, and not simply 'to sell'.**

**Every Machine Fully Guaranteed.**



**We carry in stock 5 ft., 7 ft. & 9 ft. Pans.**

( 5 ft. Pan or Grog Mill. )

Every Dry Pan and Wet Pan is equipped with our Improved Friction Clutch, which allows gradually starting and instantly stopping the same.

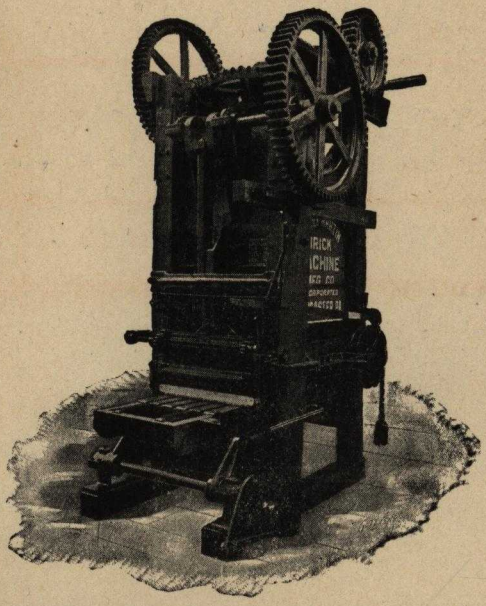
The Mullers have a broad face, thus providing large crushing capacity. Our 5 ft. Pan weighs over 10,500 pounds and the 9 ft. over 32,000, and all in the proper place.

**Let us talk it over further with you.**

---

**MARTIN** **Clay Working Engineers & Machinery Experts.**

**LANCASTER, PA.**



# MARTIN'S STYLE "A"

*This machine is just the one for every plant that wants to be*
**DOWN - TO - DATE**

*There is no better machine manufactured for Fire brick, Building brick, &c. Strictly second to none.*

**REPAIR BILLS OVERCOME.**
**LARGE OUTPUT ASSURED.**
**WORKS EVERY DAY.**

*Let Us Quote You and Send Catalogue.*

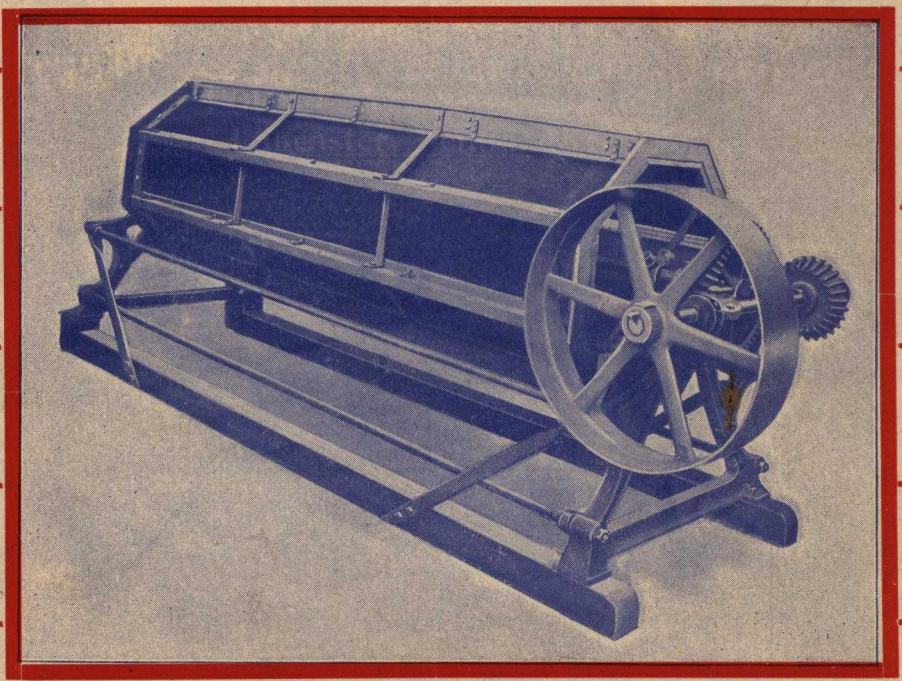
**The Henry Martin Brick Machine Mfg. Co., Inc.**
**Lancaster, Pa., U. S. A.**

*"Say you saw it in Martin's Magazine."*

# MARTIN'S

# OCTAGON SCREEN

FOR CLAY, SAND, &c., &c.



**Built to Give Satisfaction.**
**The Construction is the Best.**
**The Arrangement is Practical.**
**May we quote you a price?**


**THE HENRY MARTIN BRICK MACHINE MFG. CO.**

INCORPORATED

**Lancaster, Penna. U. S. A.**

# MARTIN'S

# OCTAGON SCREEN

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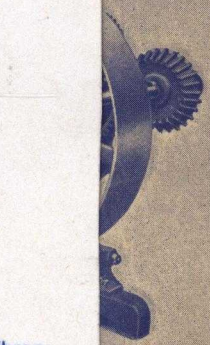

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